

Name: _____

Date: _____

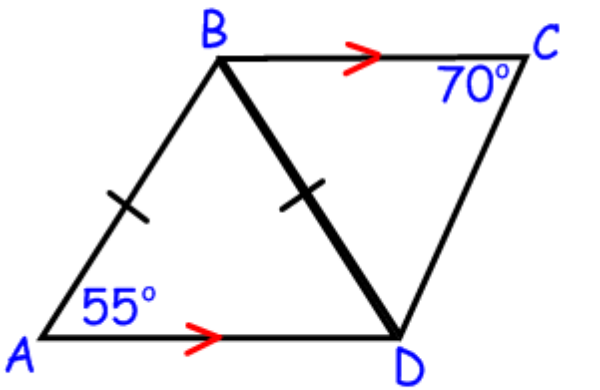
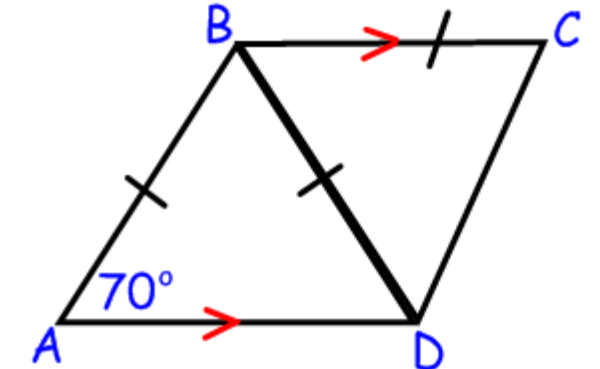
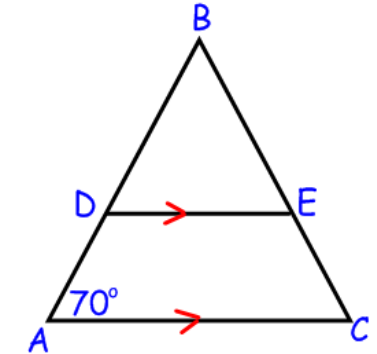
Per.: _____

5.4 Similar Triangles – Angle Angle Similarity Theorem

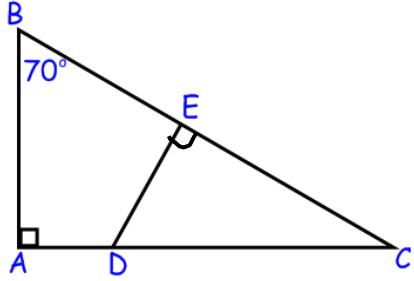
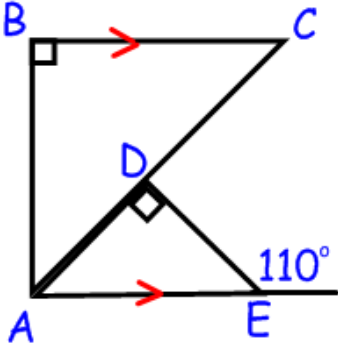
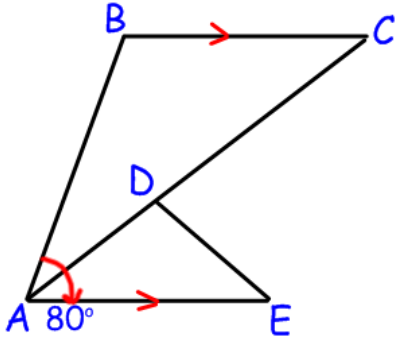
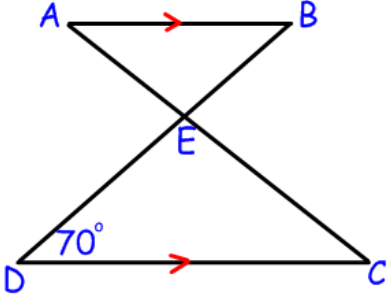
In your group, you will need to determine: Are the two triangles similar?

Look for the following in each problem:

- congruent alternate interior angles (when you are given parallel lines)
- congruent base angles (because you know a triangle is isosceles)
- congruent corresponding angles (when you are given parallel lines)
- a shared angle

	<p>Circle one:</p> <p>Similar Not Similar Cannot Be Determined</p> <p>Explain your reasoning (use angle names!):</p>
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WLPCS
Geometry

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 <p>Note: \overline{AC} bisects $\angle BAE$</p>	<p>Circle one:</p> <p>Similar Not Similar Cannot Be Determined</p> <p>Explain your reasoning (use angle names!):</p>
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EXTRA CREDIT: There are THREE triangles in the diagram below: $\triangle ABC$, $\triangle DGC$ and $\triangle DEF$. Are any of the triangles similar to another? Justify your answer.

